

ALR 6-1 Transmission Constraint Mitigation

Metric Number	ALR 6-1					
Submittal Date	February 27, 2009					
Sponsor Group (OC, PC or subgroup name)	RMWG					
Short Title	Transmission Constraint Mitigation – Planning Horizon					
Metric Description	Number of mitigation plans, and increases/decreases in that number, developed to meet reliability requirements in the planning horizon. Mitigation plans are Special Protective Schemes, Remedial Action Schemes, and/or Operating Procedures developed to meet reliability criteria.					
Purpose	To gauge the robustness of the transmission system to meet reliability criteria thru installed transmission capacity.					
How will it be suited to indicate performance ?	Trends in the number of mitigation plans required to meet reliability criteria will indicate whether the robustness of the transmission system is increasing, remaining static, or decreasing. A certain number of mitigation plans may be necessary to support reliable operation, however, changes in the number over time will provide an indication of whether additional transmission capacity is being added to meet reliability requirements or further reliance on mitigation plans are reducing the robustness of the grid.					
Formula	Number of mitigation plans = simple numeric sum of individual mitigation plans in regional transmission assessments, i.e., special protection schemes, remedial action schemes, and documented operating procedures specific to transmission constraint mitigation.					
Time Horizon	Planning horizon					
Metric Start Time or Baseline	Year 2002 or when data is first available.					
Data Collection Interval and Roll Up	Initial data and metrics should be for 200kV and above with possible later expansion to 100kV and above. Data collection should be on an annual basis consistent with the TP’s assessment under TPL-005.					
Ease of Collection	Collection is by simply counting the number of mitigation plans reported by each TP.					
Aggregation	Could be by Interconnection, Regional Entity, or Company. Could be further reported by voltage level. Recommended reporting at the Regional Entity level.					
Linkage to NERC Standard	TPL-001, 002, 003, and 004.					
Linkage to Data Source	Assessment required by each TP on an annual basis per TPL-005					
Need for Validation or Pilot	Yes, need to validate consistency of counting and reporting and develop trends for each entity					
Data Submitting Entity						
SMART Rating	Total Score	Specific/Simple	Measurable	Attainable	Relevant	Tangible/Timely
	14	3	3	3	3	2
Reporting						
Style (look and feel):	Line or bar charts					
Publications/ Documentation (e.g., section of LTRA)	Report metric trends and analysis results can be included in section of LTRA.					